# Mid-Sized Communities Forum





# City of Nerritt Cynthia White, CAO

# **2021 BC Atmospheric River Event**





# **2022 Flood Mitigation Plan - FMP**

#### **Original FMP Development**





# **2022 Flood Mitigation Plan - FMP**

Setback Dikes (vs Current Waterside Dikes)

The Flood Mitigation Plan focuses on **setback dikes** to allow natural river flow and naturalize nearby riparian areas.

Provincial and Federal governments are currently only funding rebuild of <u>waterside</u> dikes.

Merritt needs funding for land purchases to execute environmentally modern <u>Setback dikes.</u>





# **Flood Mitigation Plan – Funding**

14 total projects8 have clear funding path5 were waiting on DMAF

4 projects, \$68 million of dike building, will **NOT** be able to proceed without C-LAP (Coldwater Land Acquisition Program) approval.

<u>All</u> are 'shovel ready' with enough engineering done to proceed immediately!



# **The Cost of Doing Nothing**



- 1-in-200-year design flood has increased by 208%
- Expected damages from this event went from \$36 million to \$440 million
- Flood Construction Elevation increased between 1 meter and 2.4 meters



# Indigenous Engagement Plan (IEP)





To engage with the Bands regarding Traditional Knowledge, environmental impacts, and integrating culture and customs. To understand the historical and cultural context of the region and various project sites as it relates to the Bands.



To explore opportunities and/or partnerships through the design and delivery of flood mitigation projects.



To follow any requirements of Crown consultation on the potential impacts of the project on the exercise of Aboriginal title and rights.

"When the City of Merritt went down, we lost a second home. We felt displaced, again. As a Chief, I support the City of Merritt." – Chief Arnold Lampreau, Shackan Indian Band



# Indigenous Engagement Plan (IEP)





## STUWI(x) Naturalization Project

What is the goal?

The STUWI(x) project aims to respect the natural state of the river while incorporating ancestral views.

Priorities will be ...

- Creating a natural area with no permanent structures.
- Needs to be within budget
- Planting native species to increase riparian area
- Enhancing fish habitat along the riverbank
- Providing a publicly accessible natural space







## STUWI(x) Steering Committee How the committee works

- Non-political appointees (community member, elder, knowledge keeper, technical expert, etc.)
- September 2024 to Summer 2027
- Meeting Frequency: 2x month, 18 months
- Meeting Duration: 1-2 hours
- Meeting Location: Centrally located
- Committee members will update their chief and council

The Indigenous Engagement Manager will chair the committee and be supported by an external facilitator.

#### Eptymology

#### Stuwi'x People

Meaning "the strangers"; Nicola Athapaskans or Nicola People) were found in the Nicola Valley a few centuries ago. Later they acculturated to the Scw'exmx-Silyx Nicola People

#### s?uyu?sups

Literal translation Confluence of Coldwater Creek and Nicola River, at Merritt ?uy – root base meaning gather

# Fuel Management - Fires

#### City of Merritt

Cov

#### Historic Fires and Burn Scars

Government of British Columbia, DataBC, GeoBC | DataBC, Province of British Columbia

# **Fuel Management Plan Overview**

- At present, 234 hectares (578 acres) under prescription.
- As of 2021, all identified stand modification complete.
- Maintenance Prescriptions Ongoing.
- Prescribed burning challenges.
  - High Smoke Sensitivity Zone
  - Public Acceptance
  - Burn Plan Development
  - Burn Boss Certifications
  - Adequate Funding





# **Fuel Management Strategies -Forest**



Based on recommendations from our Community Wildfire Resiliency Plan (CWRP), specific fuel management prescriptions have been developed for targeted treatment units (TUs).

 Funded though Community Resiliency Investment (CRI) Program.

#### Fuel Management Objectives:

• Negate crown fire potential, reduce fire intensity, improve forest health and enhance community safety.

#### **Prescription Methods:**

- **Thinning**: Reduce tree density from ~1500 to 350 stems/hectare to open the canopy.
- **Pruning**: Remove ladder fuels to prevent fire spread into the canopy.
- Fuel Removal: Pile and burn excess biomass.



## Targeted Grazing: Block 2 Fuel Reduction

**Location**: 12-ha area above Central Park, below Parker Drive

#### **Key Objectives:**

- Homes Upslope Protection: Reduce fire intensity to safeguard nearby residential areas.
- Wildfire Hazard Rating: Reduce from HIGH to Moderate

#### **Fuel Characteristics:**

- Fuel Type: Standing and Matted Grass
- **Pre-Treatment Load**: 4 tonnes/hectare
- Post-Treatment Load: Less than 2 tonnes/hectare
- **Treatment Cost**: \$2,550 per hectare
- Retreatment: 2-4 years

Imagery Date: 7/19/2007



## Target Grazing – the Benefits

**Reduced Fire Intensity** 

Cost Effective

Non-toxic, non-polluting, nearly carbon-neutral

Controls Noxious weeds, grass and brush

Soil Enrichment

Reduce Public Health Risks - Tick Habitat

Widely Accepted by Public

# **Results of Target Grazing with Goats**



- Overall, surface fuel loading reduction was achieved; less than 2 tonnes / ha.
- Goats prefer browsing woody shrubs, saplings, and seedlings in comparison to grasses and prefer eating vegetation above shoulder height.
- On the steep slopes and ridges, where goats maintained their preferred forage position, fuel reduction was sufficient, but at the flat slope base, where goats would have to lower their heads and consume nonpreferential vegetation, fuel reduction was patchy.
- Alternative livestock might be considered. Example: Sheep preferentially consume less shrubs and small woody plants than goats and have a higher preference for grass and forbs.



## RIDE THE THE WAVE UBCM 2024

## Mid-Sized Communities Forum Local Government Climate Action Program

The Cariboo Regional District and the City of Williams Lake work together to address opportunities to further increase the ability to transform and improve energy savings and reduce green house gases.

The desire to meet climate action goals, prepare for impacts of climate change and transition towards a net-zero future is heavily dependent on the Local Government Climate Action Program. LGCAP ensures stable funding to provide future developments in reducing GHG emissions, prepares communities for the impacts of a changing climate and ensures we are continuously working towards a clean energy economy.

#### <u>Two Projects:</u> Solar Panel Installation Heat Recovery

2023-2024Completed2024-2025In Progress



19



# Solar Panel Installation 2023/2024







The Cariboo Memorial Recreation Complex is owned by the Cariboo Regional District and operated by the City of Williams Lake.

The multi purpose facility now hosts a 227.5kW rooftop solar panel array, which offsets the facility's utility electrical consumption, by harnessing energy from the sun. The infrastructure upgrades included 500 solar modules mounted on a flat roof ballasted racking system.





#### **Grid-tied Photovoltaic**

**PV Racking System** 

flat torch on roof

**Photovoltaics** 

(500) 455W solar modules

**Inverters** paralleled commercial string inverters

**Annual PV Energy Generation** 1

234.5MWh

**Total Peak Systems Capacity** 

225.5kW de

## Lifetime CO2 Offset 567 homes' electricity use for 1 year













The Cariboo Regional District has also utilized this program to install solar panels on two other recreation centers'; South Cariboo **Recreation Centre in** 100 Mile House and the Forest Grove Curling Rink - as well as eight community halls and two airports.







#### **Community Works Fund**

The Community Works Fund (CWF) is one of the funding streams of the Canada Community-Building Fund. The CWF allocates funding to all local governments in BC based on a per capita formula that includes a funding floor. Local governments may direct the funding towards eligible costs of eligible projects as set out in the CWF agreement and report annually on these projects and their outcomes. Approximately \$465,000 was the total project cost.



26



## **Community Works Fund**

Community Energy Systems Stream

Infrastructure that generates or increases efficient use of energy.

Examples include:

- ✓ Renewable electricity generators
- Electric vehicle infrastructure/fleet vehicle conversion
- Hydrogen infrastructure (generation, distribution, storage)
- ✓ Wind/solar/thermal/geothermal energy systems
- Alternative energy systems that serve local government infrastructure
- Retrofit of local government buildings and infrastructure not captured in any other eligible category





# Heat Recovery Project 2024/2025





Integrated Bilateral Agreement for the Investing in Canada Infrastructure Program (IBA-ICIP) – Green Infrastructure – Climate Change Mitigation Sub-Stream Clean BC Communities Fund

#### **Project # IG0678** – Cariboo Memorial Recreation Complex

The Cariboo Memorial Recreation Complex Energy Recovery Project will consist of the following:

- air-handling unit pre-heat coil;
- replacement air-handling and make-up air units;
- repair and re-purposing of ammonia desuperheater;
- heat pump and glycol heating loop(s);
- integration of heating loops with existing and new HVAC equipment; and
- mechanical, electrical, control/monitoring, signage, and other related works and appurtenances.

Supporting ventilation improvements in publicly owned buildings was an additional funding stream added during the pandemic. This was to support pandemic response and economic recovery efforts. Funding is approved under the Green Infrastructure – Climate Mitigation Clean BC

29



### Heat Recovery for the Project





## Heat Recovery Potential



- Total Source Heat: ~7,500 GJ/year
- Total heat load met by gas: ~10,000 GJ/year





### **Energy Impact**

Pool Boiler Loop and Arena DHW: MUA-1 and Gibraltar AHU: Minor HVAC and IR Heaters: 25% by gas.30% by gas.100% by gas.







Heat Recovery Chiller designed by Polar Engineerin g



### FORTIS BC Custom Efficiency Program

If you want to improve the energy efficiency of a commercial, industrial or agricultural building or facility, we'll work with you to develop a custom solution. From energy studies to implementing energy conservation measures, this program provides funding to help you achieve energy and cost savings. It's all part of our commitment to transform BC's energy future by helping customers lower their greenhouse gas (GHG) emissions and supporting the <u>Province's Roadmap to 2030</u>.

Incentives are the lesser of: 34 ✓ \$6/G over the measure life of a natural gas efficiency project ✓ \$0.03/kWh over the measure life of an electric efficiency project (note: this incentive is for FortisBC or municipal electricity customers) ✓ 75 per cent of the invoiced project ✓ a maximum of up to \$500,000 for commercial building or agricultural lighting projects, or up to \$1.5 million for industrial facilities

You must be a Fortis BC Customer to Qualify for up to \$500,000





### IBA\_ICIP

Shared Cost agreement with the Province of BC and the Government of Canada for the Investing in Canada Infrastructure Program.

 $\checkmark$ 

 $\checkmark$ 

 $\checkmark$ 

 $\checkmark$ 

#### Outcomes must have one of:

<text>

- Increased capacity to manage renewable energy
  - Increased access to clean energy transportation
  - Increased energy efficiency of buildings
    - Increased generation of clean energy





## Required and Important

# Use Your Networks

Professional Associations Peers Businesses

CALL

# Watch Other Projects

Community Centers, Arenas, Pools

CALL

# Get On Information Lists

Government Websites, Grant Opportunities, Webinars, Conferences



36


# Further Information:

Stacey Miranda Director of Community Services City of Williams Lake <u>smiranda@williamslake.ca</u> 250 392 1786



# RIDE THE THE WAVE UBCM 2024

# Whistler Climate Resilience

2024 UBCM Vancouver

Luisa Burhenne Manager of Climate and Environment Resort Municipality of Whistler



Whistler: A place where community thrives, nature is protected and guests are inspired.







Extreme rainfall & flash flooding

Increasingly variable winter freezing levels



CHIMATE

EXTREME weather events put people, infrastructure & nature at risk droughts & heat waves

**Increased summer** 



More frequent and intense storms and atmospheric rivers

Warmer winters

More frequent rain on snow events

Increased risk of wildfires





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Less winter snow at lower elevations





REDUCTION BY 2030 LOW-CARBON RESILIENT COMMUNITY

50%

# Climate change and wildfire risk

#### Minimize threats from wildfires





- Whistler is surrounded by forest
- Climate change leads to hotter dryer summers
- Wildfires are the biggest climate change related risk in Whistler



## Whistler's Wildfire Management Program

#### Minimize threats from wildfires





#### GOAL:

Reducing forest fuels on municipal and crown land to reduce the ability of fire to spread from the forest into the community and vice versa, and to make wildfires easier to fight.





#### GOAL:

Helping private property owners reduce wildfire risk in their yards and by using fire resistant building materials. The RMOW offers support through FireSmart property assessments, wood chipper program and Neighbourhood Work Days.



#### EMERGERNCY PLANNING

#### GOAL:

Developing Community Wildfire Defense Plans to ensure water delivery, quick response, adequate firefighting equipment and enhancing public education



# **CWRP** collaborative efforts

#### Minimize threats from wildfires

- FireSmart and fuel thinning communications
- Emergency planning
- Training and education
- Vegetation management





# What is fuel thinning?

#### Minimize threats from wildfires

#### **Before thinning**

- Dense and young
- Little light on forest floor
- Poor habitat for wildlife

#### After thinning

- Structure of old forests
- More light on forest floor
- Better habitat for wildlife
- Reduced fire hazard





# Fuel thinning is an important tool in wildfire mitigation

#### Minimize threats from wildfires









Received Disaster Mitigation and Adaptation Funding for 12 high priority areas in Whistler



### Municipal Natural Asset Management Initiative Increase resilience to extreme weather events

What are *municipal natural assets*?

 Natural resources or ecosystems that a community could rely upon and/or manage for the sustainable provision of one or more local government core services such as drinking water supply, storm water management, or protection from flooding and erosion



Photo: Fitzsimmons Creek, one of Whistler's primary waterways



# Why manage municipal natural assets?

#### Increase resilience to extreme weather events





- Core services provision
- Climate resilience
- Co-benefits
- Fiscal savings
- Risk management

Photo: River of Golden Dreams main channel and Whistler's largest wetland complex



# Where are we at with managing Natural Assets?

Increase resilience to extreme weather events

- ✓ Inventory of key natural assets
- ✓ Basic condition & risk assessments
- ✓ Roadmap
- ✓ Level of Service framework
- ✓ Current initiatives



Screenshot of Inventory of Whistler's key natural assets



# Next Steps in Natural Asset Management Initiative

#### Increase resilience to extreme weather events





- Conduct economic valuation of assets
- Detailed risk assessments
- Develop MNA mgmt. plans
- Integrate with broader municipal asset mgmt. system
- Implement, monitor & adapt



Photo: Old forests in the Callaghan Valley

#### Other climate resilience measures Protect local ecosystems and biodiversity

- Invasive Species Management
- Ecosystem & Species Monitoring Program





Photo: SSISC field crew members removing Yellow flag iris at local wetland



Photo: Red-listed Northern Goshawk in Whistler



# Questions?





# RIDE THE THE WAVE UBCM 2024







# **Overarching Reasons for Homelessness**





# **Multiple Factors**



- Incidence of Trauma
- Outcomes of Trauma
  - Crisis Response Teams
  - Brain Aid
  - Medication
  - Detox, Stabilization, Rehabilitation and Integration programs



# How to get there?



- Provincial agencies to take an integrated approach
- Resources in our community and united front
- Continued Lobbying
- Discontinue Service Outside of Municipal Jurisdictions







# Council Todd Patola 250-723-2146 todd\_patola@portalberni.ca



# RIDE THE THE WAVE UBCM 2024



# IMPACTS OF HOMELESSNESS

Mayor Sean Bujtas UBCM 2024











# GREATER VANCOUVER: 1 IN 548

# **TERRACE:** 11N 83

IF GREATER VANCOUVER HAD THE SAME RATE OF HOMELESSNESS AS TERRACE, THEIR HOMELESS POPULATION WOULD BE ALMOST 6X HIGHER

(FROM 4,821 PEOPLE TO 28,963 PEOPLE)

#### **TERRACE STANDARD**

News More Contests Shop Flyers E-Editions Classifieds Auto Jobs Ob

Home · Local News

# Recently expanded Terrace shelter operating above capacity

18 additional beds added in 2023 still not enough to meet demand



Joe's Place, the Ksan Society's new shelter on Tetrault, has more demand for beds than its official capacity. (Staff photo)

Terrace's only emergency homeless shelter already fills up beyond its official capacity despite having almost doubled in size earlier this year.





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7

# • 207 WELLNESS CHECKS

- 113 RIDE ASSISTS
- 192 INSTANCES OF RESOURCES (FOOD, WATER, CLOTHING)

# • 647 INSTANCES OF LOITERING

- 262 DRUG-RELATED OCCURRENCES
- 653 DRINKING OCCURRENCES
- 31 INSTANCES OF PEOPLE CREATING A DISTURBANCE
## CBC MENU ~ Paris 2024 NEWS Top Stories Local Climate World Canada Politics Indigenous

**British Columbia** 

## Homeless man found dead in northwestern B.C. tent camp following freezing night

B.C. Coroners Service has not yet confirmed cause of death, community says victim well known

Tom Popyk · CBC News · Posted: Dec 23, 2022 6:26 PM PST | Last Updated: December 23, 2022



Snow-covered tents are pictured in Vancouver on Dec. 21. Officials in Terrace say a man well-known in the community was found dead inside a tent in a homeless encampment in the northwestern B.C. city on Dec. 22. (Ben Nelms/CBC)

#### **TERRACE STANDARD**

News More Contests Shop Flyers E-Editions Classifieds Auto Jobs O

## City cleans up downtown Terrace tent city

City says encampments not a solution to homelessness

Michael Bramadat-Willcock Jan 17, 2023 12:30 PM Updated Jan 17, 2023 6:32 PM





The city cleared what remained of a homeless encampment at the old Co-op lot in downtown Terrace Jan. 11. (Staff photo)

City of Terrace bylaw officers dismantled the tent city encampment at the old Co-op property owned by the city Jan. 11 to address safety concerns after the death of a local man in his tent during cold weather before Christmas.





The organization Kermode Friendship Society is putting pressure on Terrace politicians to provide a safe place where people who don't have a place to stay can live. Photo: Tarea Roberge.



12





## COST SUMMARY (1 YEAR)

EXPENDITURE	COST
BYLAW/COMMUNITY SAFETY/DOWNTOWN SAFETY OFFICERS	\$437,440
DOWNTOWN LITTER PICKUP	\$23,456
TEMPORARY OUTDOOR BATHROOMS	\$56,000
PERMANENT OUTDOOR BATHROOM (INSTALL)	\$98,090
PERMANENT OUTDOOR BATHROOM (CLEANING)	\$21,000
FIRE DEPARTMENT RESPONSE TO ENCAMPMENTS	\$17,558
MEDICAL OVERDOSE CALLS	\$36,952
SOCIAL DEVELOPMENT PROGRAM	\$159,222
SUMMARY OF COSTS (1 YEAR)	\$849,718



## ROOM FOR ALL HOUSING SOLUTIONS AS THE NORTHWEST GROWS

#### CONFERENCE IN TERRACE, BC MARCH 4 & 5, 2024

Cost: \$250 + taxes and fees Register deadline: February 29, 2024 engage@terrace.ca THE CITY OF TERRACE



# THANK YOU

Mayor Sean Bujtas UBCM 2024





#### RIDE THE THE WAVE UBCM 2024

# Homelessness Costs to Municipalities

**Councillor Wes Graham** 

City of Cranbrook

2024 UBCM



MOUNTAINS OF OPPORTUNITY CRANBROOK

#### **Regional Centers for Services**



## **Cost for Emergency Services**





**CRANBROOK** 

### **Cost for Emergency Services**



#### Mental Health Trends

**Total Paid Claims by Short Term Disability Category** February 1st, 2022 - September 12th, 2022



MOUNTAINS OF OPPORTUNITY

### Extra Staff, New Tasks, No time for primary municipal work



### Loss of Community Space



MOUNTAINS OF OPPORTUNITY

## Petty Crime to Businesses



#### RIDE THE THE WAVE UBCM 2024

#### 2023 Point-in-Time Counts in BC UBCM – Tuesday, September 17<sup>th</sup>, 2024

**Stephen D'Souza** Executive Director, Homelessness Services Association of BC



Counts included in this presentation were conducted on the territories of the Chemainus, Gitxsan, Haisla, K'ómoks, Ktunaxa, Kwantlen, k<sup>w</sup>ik<sup>w</sup>əåəm, Leq'á:mel, Lhtako Dene, Ligwilda'xw People (Inclding Wei Wai Kum, We Wai Kai, and Kwiakah First Nations), Musqueam, Nanoose, Nlaka'pamux, Nuu-chah-nulth, shíshálh (Sechelt), Semiamhoo, Stó:lo, (Skwxwú7mesh Úxwumixw) Squamish, Treaty 8, Tŝilhqot'in, Wet'suwet'en First Nations, and the Cowichan Tribes



# Residential School Experience

#### **RESIDENTIAL SCHOOL**

71% of Indigenous-identifying respondents reported having lived or generational experience with residential school in the BC Count

79%

of Indigenous-identifying respondents from 16 mid-size communities reported having lived or generational experience with residential schools

"I almost don't even know how to respond except the legacy of the Indian Residential School system continues to have a profound impact on Indigenous health disparities. It really does need to be addressed through an upstream approach. It moves the narrative on disparities from abstract to ongoing living experiences with systemic oppression, injustice, and a failure to reconcile with Indigenous people on equitable access to housing. If we are to see housing as a human right, than this data represents the ongoing violation of Indigenous human rights to access safe, affordable, and culturally appropriate housing."

> Thiyustun "Rocky" James, Indigenous scholar and entrepreneur



# 2023 BC Point-in-Time Homeless Counts

HSABC, on behalf of BC Housing and the Ministry of Housing, supported local coordinators in conducting Point-in-Time Counts in the Spring of 2023 in these 16 communities on:

Sechelt/Gibsons Quesnel Williams Lake Merritt Dawson Creek Kitimat Smithers March 3<sup>rd</sup> March 10<sup>th</sup> March 10<sup>th</sup> March 15<sup>th</sup> March 17<sup>th</sup> March 28<sup>th</sup> April 12<sup>th</sup>

Prince Rupert	April 13 <sup>th</sup>
Cranbrook	April 13 <sup>th</sup>
Terrace	April 18 <sup>th</sup>
Powell River	April 25 <sup>th</sup>
Parksville/Qualicum	April 26 <sup>th</sup>
Salmon Arm	April 28 <sup>th</sup>
Port Alberni	May 2 <sup>nd</sup>





People were identified as experiencing homelessness in the BC Count

1,411

People were identified as experiencing homelessness in these 16 mid-sized communities



Where did individuals stay the night of the count - BC Total



R	es	ul	ts

	2020/1	2023	Population	Per Capita	# Change
Prince Rupert	118	146	12,883	1.13%	28
Williams Lake	51	77	11,422	0.67%	26
Merritt	43	67	7,415	0.90%	24
Port Alberni	125	163	19,496	0.84%	38
Parksville/Qualicum Beach	87	103	24,096	0.43%	16
Smithers	33	57	5,622	1.01%	24
Cranbrook	63	116	22,053	0.53%	53
Sechelt and Gibsons	84	97	16,155	0.60%	13
Quesnel	121	127	10,070	1.26%	6
Terrace	NA	156	12,959	1.20%	NA
Dawson Creek	NA	52	13,013	0.40%	NA
Kitimat	NA	55	8,864	0.62%	NA
Powell River	NA	126	14,776	0.85%	NA
Salmon Arm	NA	69	20,583	0.34%	NA





#### SEXUAL ORIENTATION

11% of respondents identified as 2SLGBTQIA+

#### TRANS EXPERIENCE

3% of respondents identified as having trans experience

#### SEXUAL ORIENTATION

12% of respondents identified as 2SLGBTQIA+

#### TRANS EXPERIENCE

3%

of respondents identified as having trans experience











Experienced homelessness Experienced homelessness for the first time as a youth for the first time as a youth



#### **16 COMMUNITIES**









## Lessons Learned

Humanize not demonize – language matters

Encampments as opportunities to foster safety and connection

Hear the quiet voices – invite lived experience into the conversation

# Thank you





#### Stephen D'Souza

Executive Director, HSABC





www.hsa-bc.ca



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## The Spirit of the North Healthcare Foundation

In appreciation of our speakers today and with thanks for your contribution, UBCM has made a donation to The Spirit of the North Healthcare Foundation. The Foundation works collaboratively with its Donors, Healthcare Partners and has been instrumental in contributing over \$40 million towards essential equipment, enhancing facilities, and supporting the ongoing education of healthcare professionals and medical staff.

